

ABSTRACT

The invention relates to an asynchronous transfer mode method of transmitting digital signals in which terminals (16, 18) send to the same station (20). Calls are transmitted by cells (40, 42, 44, 46), the terminals send successively in separate periods (60, 62, 46, 66; 70, 72, 74), and each cell is assigned at least two orthogonal codes (C1, C2, C3, C4). In accordance with the invention, the duration of the period during which each terminal sends and/or the number of codes assigned to each terminal and/or the number of symbols assigned a particular code in a terminal can be selected on each sending as a function of a particular power level (80).